

**Exercise 1** A salesperson is paid \$200 per week plus 5% commission on her weekly sales of  $x$  dollars.

(a) A linear function that represents her total weekly pay,  $W$  (in dollars) in terms of  $x$  is  $W(x) = \boxed{.05x + 200}$ .

(b) In order for her to earn \$475 for the week, her weekly sales must be \$  $\boxed{5500}$ .

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